DATENBLATT

NR500-Serie

HABEN SIE FRAGEN ODER
WÜNSCHEN SIE EIN INDIVIDUELLES ANGEBOT?
Unser Team berät Sie gerne persönlich.

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ADRESSE
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D-82239 Alling bei München

Erwähnte Firmen- und Produktnamen sind zum Teil eingetragene Warenzeichen der jeweiligen Hersteller.

NR500 Pro Series
Industrial Cellular VPN Router

PRODUCT OVERVIEW

Industrial internet access
- Wireless Mobile Broadband 2G / 3G / 4G Connection
- Remote access to SCADA System for Industrial Automation
- Reduce high costs for on-site maintenance

Designed for industrial usage
- Power Input Range 9 to 48 VDC
- Industrial designed for harsh environment
- Compact metal casing for easy mounting

Secure and reliable remote connection
- Connection manager ensure seamless communication
- Support Multiple VPN tunnels for data encryption
- Firewall prevents unsafe and unauthorized access

Easy to use and easy maintenance
- User-friendly web interface for human interaction
- Easy configuration for deployment
- Support 3rd Party remote management cloud

TYPICAL APPLICATION

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SPECIFICATION

CELLULAR	
Frequency Bands	4G(LTE) AU&NZ: B1/B2/B3/B4/B5/B7/B28, B40 EMEA: B1/B3/B5/B7/B8/B20, B38/B40/B41 America: B2/B4/B12/B13 Japan: B1/B3/B8/B18/B19/B26, B41 China: B1/B3/B8, B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8/B19 TD-SCDMA: B34/B39 GSM/EDGE: B2/B3/B5/B8 More Bands Demands please contact with us
SIM	2 x SIM slots, 1.8V / 3V
SIM Failover	Auto-switch cases: weak signal, data limited, SMS limited, no network, network denied, data connection fail
Auto APN List	Operator APN list
Mobile Quota Control	Set up customized data limits for both SIM cards
Number of Antennas	2 (MAIN + AUX)
Connector	SMA female

ETHERNET	
Number of Ports	1 x WAN + 3 x LAN or 4 x LAN
Port Type	Auto 10/100 Mbps, auto MDI/MDIX
Magnet Isolation Protection	1.5 KV

Wi-Fi (Optional)	
Wireless Mode	IEEE 802.11b/g/n, Access Point (AP), Client
Wireless Speed	2*2 MIMO, 300 Mbps
Wireless Security	WPA, WPA2, WEP, 64/128 AES, TKIP
Frequency Bands	2.412 - 2.484 GHz (2.4 GHz ISM band)
Antennas	2 x RP-SMA for Wi-Fi antenna connectors

SERIAL	
Number of Ports	1 x RS-232 (3 PIN) + 1 x RS-485
Connector	Terminal block
ESD Protection	±15 KV
Band Rate	300bps to 115200bps

DIGITAL INPUT & OUTPUT	
Type	2 x DI + 2 x DO
Connector	Terminal block
Isolation	3KVDC or 2KVrms
Absolute maximum VDC	36VDC
Absolute maximum ADC	100 mA

NETWORK	
Routing	Static routing
Network Protocols	TCP, UDP, IPv4, ICMP, NTP, DNS, HTTP, HTTPS, ARP, VRRP, PPP, PPPoE, DHCP,
Connection Manager	Ping Detection, Timer Reboot, ICMP for link detection
DHCP	Static and dynamic IP allocation
DDNS	Supported some service providers, others can be configured manually
Network Backup	Cellular, Wired and Wi-Fi WAN options, each of which can be used as backup
Firewall	Flexible access control of TCP, UDP, ICMP packets, MAC address filter

VPN	
OpenVPN	Multiple clients and server can be running simultaneously
IPsec	IKEv1, IKEv2, supports up to 3 x VPN IPsec tunnels
DMVPN (Pending)	Dynamic Multipoint Virtual Private Networking DMVPN

MONITORING & MANAGEMENT	
Web GUI	HTTP/HTTPS, firmware upgrade
Command Line Interface	SSHv2 and TELNET
3rd party platform	Pending
SNMP (Pending)	SNMP (v1, v2, v3), SNMP trap

POWER	
Connector	3-pin 3.5 mm female socket with lock
Input Voltage Range	9 to 48 VDC
Power Consumption	Idle: 100 mA@12 V Data link: 400 mA (peak) @12 V

HARDWARE SPECIFICATION	
Watchdog	Built-in watchdog
LEDs	SYS, NET, USR, RSSI x 3
Reset Button	Reset/restore to factory default button
Ingress Protection	IP30
Housing & Weight	Metal, 300 g
Dimensions	106mm x 106mm x 40mm
Installations	DIN-rail mounting
Operating Temperature	-40 ℃ to 75 ℃
Operating Humidity	5% to 95% non-condensing

APPROVAL		
EMI	EN 55032:2012 Class B	
EMS	IEC 61000-4-2 ESD: IEC 61000-4-3 RS: IEC 61000-4-4 EFT: IEC 61000-4-5 Surge: IEC 61000-4-6 CS:	Level 4 Level 3 Level 3 Level 3 Level 3
Vibration	EN50155	

ORDERING INFORMATION

Model	Part Number	Description
NR500-P4G	A504433	4G LTE, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC
	A514433	4G LTE, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC, 2.4GHz Wi-Fi
NR500-P3G	A504333	3G, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC
	A514333	3G, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC, 2.4GHz Wi-Fi

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NR500 Standard Series
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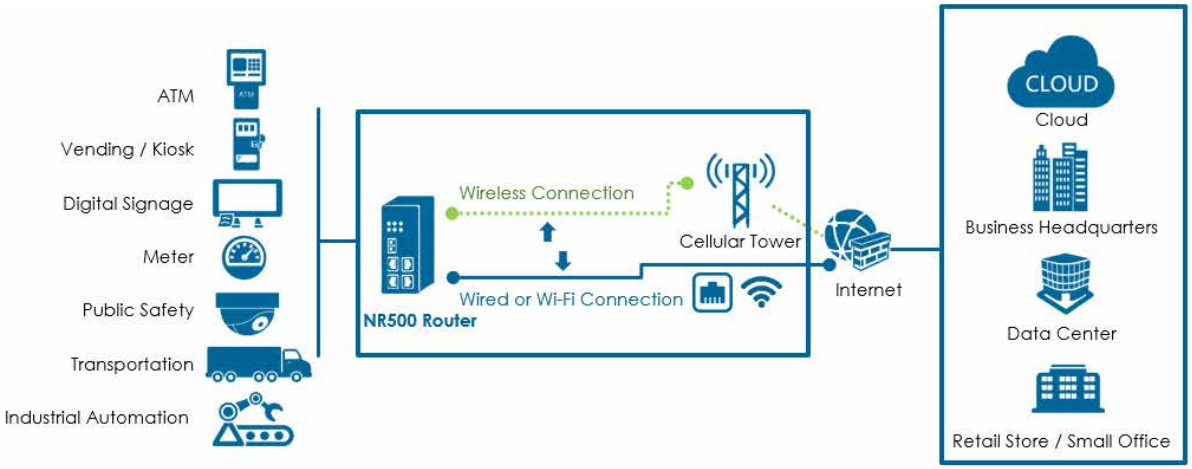

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NR500-S4G	A502433	4G LTE, Dual SIMs, 2 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC
	A512433	4G LTE, Dual SIMs, 2 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC, 2.4GHz Wi-Fi
NR500-S3G	A502333	3G, Dual SIMs, 2 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC
	A512333	3G, Dual SIMs, 2 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC, 2.4GHz Wi-Fi

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